

Storm Data and Unusual Weather Phenomena - August 2007

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
LAKE MICHIGAN				
NORTH PT LT TO WIND PT WI COUNTY				
MILWAUKEE HARBOR	08/12/07 01:10 CST		0	Marine Thunderstorm Wind (MG 35 kt)
	08/12/07 01:10 CST		0	43.03N, 87.97W
Thunderstorm wind gusts to 35 knots (40 mph) were measured near the Milwaukee Harbor.				
WIND PT LT WI TO WINTHROP HBR IL COUNTY				
KENOSHA	08/12/07 01:30 CST		0	Marine Thunderstorm Wind (MG 40 kt)
	08/12/07 01:30 CST		0	42.58N, 87.83W
Thunderstorm wind gusts to 40 knots (46 mph) were measured near the Kenosha Harbor.				
Leftover clusters of strong storms pushed out over Lake Michigan and generated strong wind gusts.				
WIND PT LT WI TO WINTHROP HBR IL COUNTY				
0.6 NE KENOSHA	08/12/07 01:35 CST		0	Marine Thunderstorm Wind (MG 39 kt)
	08/12/07 01:35 CST		0	42.5861N, 87.8217W
A thunderstorm wind gust of 39 knots (45 mph) was measured in the Kenosha harbor area.				
A line of strong thunderstorms moved out over Lake Michigan and generated strong wind gusts.				
NORTH PT LT TO WIND PT WI COUNTY				
2.2 NE MILWAUKEE HARBOR	08/22/07 16:30 CST		0	Marine Thunderstorm Wind (MG 37 kt)
	08/22/07 16:30 CST		0	43.0525N, 87.9392W
A thunderstorm wind gust of 37 knots (43 mph) was measured near the Milwaukee harbor.				
NORTH PT LT TO WIND PT WI COUNTY				
0.5 E CUDAHY	08/22/07 16:32 CST		0	Marine Thunderstorm Wind (EG 46 kt)
	08/22/07 16:32 CST		0	42.95N, 87.8401W
An estimated thunderstorm wind gust of 46 knots (53 mph) occurred near the Milwaukee harbor.				
A short line of storms moved east out over Lake Michigan and generated strong wind gusts.				
NORTH PT LT TO WIND PT WI COUNTY				
2.2 NE MILWAUKEE HARBOR	08/27/07 12:25 CST		0	Marine Thunderstorm Wind (MG 36 kt)
	08/27/07 12:25 CST		0	43.0525N, 87.9392W
A thunderstorm wind gust of 36 knots (41 mph) was measured near the Milwaukee harbor.				
NORTH PT LT TO WIND PT WI COUNTY				
0.5 E CUDAHY	08/27/07 12:29 CST		0	Marine Thunderstorm Wind (EG 40 kt)
	08/27/07 12:29 CST		0	42.95N, 87.8401W
An estimated thunderstorm wind gust of 36 knots (41 mph) occurred near the Milwaukee harbor.				
WIND PT LT WI TO WINTHROP HBR IL COUNTY				
0.6 NE KENOSHA	08/27/07 13:15 CST		0	Marine Thunderstorm Wind (MG 37 kt)
	08/27/07 13:15 CST		0	42.5861N, 87.8217W
A thunderstorm wind gust of 37 knots (43 mph) was measured near the Kenosha harbor.				
A line of thunderstorms moved out over Lake Michigan and generated strong wind gusts.				

WISCONSIN, Southeast

(WI-Z046) MARQUETTE, (WI-Z047) GREEN LAKE, (WI-Z051) FOND DU LAC, (WI-Z052) SHEBOYGAN, (WI-Z056) SAUK, (WI-Z057) COLUMBIA, (WI-Z058) DODGE, (WI-Z059) WASHINGTON, (WI-Z060) OZAUKEE

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	08/01/07 00:00 CST		0	Drought
	08/15/07 23:59 CST		0	

The July drought continued through the first two weeks of August, 2007, over parts of south-central and southeast Wisconsin. The area was north of a line from Baraboo to Watertown to Mequon. The corn, alfalfa, and soybean crops were affected, especially in the higher areas or well-drained or poor soils. It is unknown how much of a monetary loss the drought generated. Thundestorm rains gradually reduced the effects of the drought by mid-month. D1 (moderate) drought conditions were observed, which improved to D0 (abnormally dry) by the middle of August, 2007.

DANE COUNTY

BLUE MOUNDS	08/05/07 00:00 CST		20K	Heavy Rain
3.0 S DALEYVILLE	08/05/07 04:00 CST		0	43.02N, 89.83W ~ 42.8766N, 89.82W

Training thunderstorms moved east-southeast across southwestern Dane County and dumped heavy rains overnight into the pre-dawn hours of August 5th. Fortunately the thunderstorms were spread out, otherwise this would have been a flash flood event. Some basement flooding was noted due to drain-backups and sump pump failures, and these homes sustained water damage to contents. Additionally, most small creeks or streams in southwestern Dane County reached bankfull or flood stage; although no problems or road closures were noted. Specific rainfall totals include 8" at a location about 2.5 miles north-northwest of Daleyville, 6.2" about 3 miles northeast of Daleyville, 5.5" at a spotter's home 1 mile east of Mount Horeb, 5.25" at a location 1 mile southwest of Montrose and 5.0" in Blue Mounds and 2 miles southwest of Verona. Refer to the Flash Flood event for Iowa County on August 5, 2007, for related details.

GREEN COUNTY

BELLEVILLE	08/05/07 00:00 CST		10K	Heavy Rain
MONTICELLO	08/05/07 04:00 CST		0	42.85N, 89.53W ~ 42.73N, 89.58W

Training thunderstorms moved east-southeast across northern Green County and dumped heavy rains overnight into the pre-dawn hours of August 5th. Although there wasn't a flash flood event, some basement flooding was noted due to drain-backups and sump pump failures. Consequently some basement contents sustained water damage. Additionally, most small creeks or streams in northern Green County reached bankfull or flood stage; although no problems or road closures were noted. Specific rainfall totals include 5.82" at a COCORAHs site about 2 miles east-southeast of Belleville, and 5.15" at a location 3 miles north of Monticello. Refer to the Flash Flood event for Iowa County on August 5, 2007, for related details.

ROCK COUNTY

EVANSVILLE	08/05/07 00:00 CST		10K	Heavy Rain
4.9 SE CLINTON	08/05/07 04:00 CST		0	42.78N, 89.3W ~ 42.5199N, 88.802W

Training thunderstorms moved east-southeast across portions of Rock County and dumped heavy rains overnight into the pre-dawn hours of August 5th. Although there wasn't a flash flood event, some basement flooding was noted due to drain-backups and sump pump failures. Consequently some basement contents sustained water damage. Additionally, many small creeks or streams in Rock County reached bankfull or flood stage; although no problems or road closures were noted. Specific rainfall totals include 5.45" at a spotter's location 4.9 miles southeast of Janesville, 4.5" in Evansville, 4.22" at a co-op site in Afton, 3.72" at a co-op site in Clinton, and 3.45" in Milton. Refer to the Flash Flood event for Iowa County on August 5, 2007, for related details.

IOWA COUNTY

2.0 S ARENA	08/05/07 02:00 CST		50K	Flash Flood (due to Heavy Rain)
2.5 SSE BARNEVELD	08/05/07 04:00 CST		0	43.1411N, 89.92W ~ 42.9866N, 89.8811W

Overnight rainfalls of 5 to over 10 inches in the Arena to Barneveld to Hollendale vicinity resulted in a low-end flash flood. One significant mudslide occurred on CTH K about 2 miles northeast of Barneveld, and a second mudslide on CTH K about 2.5 miles south of Barneveld. Soil erosion also occurred between Barneveld and about 4 miles northwest of Barneveld. CTH K was reduced to only 1-lane traffic where the two mudslides occurred (mud and trees), and large front-end loaders were needed to clear the road. Several homes had water in basements in and around Barneveld for the first time ever. A farmer 2 miles west of Barneveld measured at least 10 inches of rain (he had to empty a 5-inch raingage twice and missed some rain). A portion of Amacher Hollow Road in the rural portion of Area Township washed out when culverts filled up around Mill Creek. Water depths on that road reached 3 to 5 feet. Mill Creek also flowed over the bridge on Coon Rock Road near Demby Road. Additionally, most rivers and streams in the eastern third of Iowa County reached bankfull or flood stage for at least a few hours overnight. The Wastewater Treatment Plant in Barneveld measured 9.75 inches. Other overnight rainfall amounts include 8.98" at a UW-Madison research site on the upper East Branch Pecatonica River about 2.4 miles south-southeast of Barneveld, 8.13" about 1 mile northeast of Ridgeway, 6.92" about 4 miles north of Hollendale, 6" in Hollendale, and 3.61" about 4 miles north of Dodgeville.

Training of thunderstorms moving east/southeast through south-central and southeast Wisconsin overnight, resulted in isolated flash floods in the vicinity of Barneveld, and some minor urban and small stream flooding elsewhere in Sauk, Dane, Rock, Green, and Lafayette counties. The rain that fell in this episode nearly saturated the ground in these counties, and set the stage for future flash flooding during the periods of August 18-19, and August 22nd. A rainfall graphic is attached to the Iowa County flash flood event for August 18-19th event in Iowa County. Synoptically, a stalled surface front extended from central Iowa to northern Illinois. Mid-level warm-air advection over the front set up a thunderstorm initiation zone that extended from southern Minnesota to south-central Wisconsin. Refer to the August 18-19, and 22nd flash flood events for related information.

Storm Data and Unusual Weather Phenomena - August 2007

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
ROCK COUNTY				
EVANSVILLE	08/05/07 21:00 CST		0	Heavy Rain
CLINTON	08/06/07 05:00 CST		0	42.78N, 89.3W ~ 42.57N, 88.87W
Heavy thunderstorm rains resulted in minor small stream and urban street flooding across Rock County for the 2nd straight night. A minor mudslide, about 20 x 30 feet in areal coverage, occurred on the southeast side of Janesville, and temporarily threatened an apartment building. Several streets in Janesville were closed for a few hours until the water drained away. Specific 24-hour rainfall totals ending about 0600CST August 6th include 4.25" at a spotter's location 4.9 miles southeast of Janesville, 3.88" in Janesville, 3.5" just east of Brodhead, and 3.25" at co-op site in Evansville,				
Heavy rains fell once again for the 2nd night in a row over Rock County, thanks to training thunderstorms. Additional minor small stream and urban flooding was noted. Synoptically, a frontal boundary was stalled over northern Iowa into northern Illinois, which help to focus thunderstorm initiation over southern Wisconsin. The storms moved east-southeast.				
ROCK COUNTY				
JANESVILLE	08/06/07 22:25 CST		15K	Thunderstorm Wind (EG 52 kt)
3.0 SE CLINTON	08/06/07 22:25 CST		0	42.68N, 89.02W ~ 42.5393N, 88.8284W
One thunderstorm cell, in a cluster of cells, generated powerful winds gusts to around 52 knots (60 mph) that toppled large trees in the Janesville vicinity. At least five city streets were briefly blocked by tree debris. At one residence, several large branches came down on a home and damaged the roof and enclosed porch. The storm cluster eventually moved into Walworth County to the east and weakened. Associated lightning in the Janesville vicinity was described as impressive. Several power poles and transformers were struck by lightning, resulting in the loss of power for about 10,500 customers in Rock County and 300 customers in Walworth County.				
ROCK COUNTY				
1.0 S JANESVILLE	08/06/07 22:30 CST		25K	Lightning
	08/06/07 22:30 CST		0	42.6655N, 89.02W
The TV antenna of a residential home was struck by lightning. The home's electrical system and appliances were fried when an electrical current traveled down from the TV antenna.				
A cluster of storms, with isolated severe cells, affected Rock County overnight. This was the 3rd straight night of thunderstorms over Rock County. Synoptically, a stall frontal boundary stretched from northern Iowa across extreme southern Wisconsin. Warm, moist air from the south overran the frontal boundary and triggered the thunderstorm cluster. Mid-level rotation was noted in the strongest cell, but nothing became of it.				
SAUK COUNTY				
LA VALLE	08/11/07 22:45 CST		20K	Thunderstorm Wind (EG 56 kt)
	08/11/07 22:45 CST		0	43.58N, 90.13W
Powerful thunderstorm wind gusts to around 56 knots (65 mph) toppled many trees and power-poles/power-lines in and around La Valle.				
SAUK COUNTY				
REEDSBURG	08/11/07 22:55 CST		10K	Thunderstorm Wind (EG 56 kt)
	08/11/07 22:55 CST		0	43.53N, 90W
Powerful thunderstorm wind gusts to around 56 knots (65 mph) toppled many trees and power-poles/power-lines in and around Reedsburg.				
MARQUETTE COUNTY				
OXFORD	08/11/07 23:05 CST		0.10M	Thunderstorm Wind (EG 56 kt)
MONTELLO	08/11/07 23:15 CST		0	43.78N, 89.57W ~ 43.8N, 89.32W
Powerful thunderstorm wind gusts to around 56 knots (65 mph) toppled many trees and power-poles/power-lines in a swath from Oxford to Montello.				
COLUMBIA COUNTY				
8.0 E WISCONSIN DELLS	08/11/07 23:12 CST		5K	Thunderstorm Wind (EG 52 kt)
	08/11/07 23:12 CST		0	43.63N, 89.6102W
Powerful thunderstorm wind gusts to around 52 knots (60 mph) toppled several large trees and a power-pole/power-line.				
IOWA COUNTY				
5.0 NNW HIGHLAND	08/11/07 23:25 CST		2K	Thunderstorm Wind (EG 52 kt)
	08/11/07 23:25 CST		0	43.1168N, 90.4179W
Powerful thunderstorm wind gusts to around 52 knots (60 mph) toppled several large trees and branches. A power-line was damaged.				

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GREEN LAKE COUNTY				
KINGSTON	08/11/07 23:27 CST		10K	Thunderstorm Wind (MG 52 kt)
	08/11/07 23:27 CST		0	43.7N, 89.12W
Powerful thunderstorm wind gusts to around 52 knots (60 mph) toppled many trees and a couple power-poles/power-lines in and around Kingston.				
COLUMBIA COUNTY				
2.0 E PARDEEVILLE	08/11/07 23:30 CST		5K	Thunderstorm Wind (EG 52 kt)
	08/11/07 23:30 CST		0	43.53N, 89.2401W
Powerful thunderstorm wind gusts to around 52 knots (60 mph) toppled saeveral large trees and branches. A car-port was damaged by the tree debris.				
DANE COUNTY				
4.0 NE ROXBURY	08/11/07 23:37 CST		2K	Thunderstorm Wind (EG 56 kt)
	08/11/07 23:37 CST		0	43.2909N, 89.6138W
Powerful thunderstorm wind gusts to around 56 knots (65 mph) toppled saeveral large trees and branches. A power-line was damaged.				
DODGE COUNTY				
3.0 NE RANDOLPH	08/11/07 23:38 CST		2K	Thunderstorm Wind (EG 52 kt)
	08/11/07 23:38 CST		0	43.5607N, 88.9577W
Powerful thunderstorm wind gusts to around 52 knots (60 mph) toppled saeveral large trees and branches. A power-line was damaged.				
FOND DU LAC COUNTY				
1.0 E FAIRWATER	08/11/07 23:40 CST		2K	Thunderstorm Wind (EG 52 kt)
	08/11/07 23:40 CST		0	43.75N, 88.83W
Powerful thunderstorm wind gusts to around 52 knots (60 mph) toppled saeveral large trees and branches. A power-line was damaged.				
IOWA COUNTY				
3.0 N BARNEVELD	08/11/07 23:40 CST		2K	Thunderstorm Wind (EG 52 kt)
	08/11/07 23:40 CST		0	43.0634N, 89.9W
Powerful thunderstorm wind gusts to around 52 knots (60 mph) toppled saeveral large trees and branches. A power-line was damaged.				
DANE COUNTY				
1.0 E MT HOREB	08/11/07 23:51 CST		2K	Thunderstorm Wind (EG 56 kt)
	08/11/07 23:51 CST		0	43N, 89.7102W
Powerful thunderstorm wind gusts to around 56 knots (65 mph) toppled saeveral large trees and branches. A power-line was damaged.				
DANE COUNTY				
BLACK EARTH	08/12/07 00:00 CST		1K	Lightning
	08/12/07 00:00 CST		0	43.13N, 89.75W
Lightning struck a blew apart a 60-foot pine tree which was about 30 feet from a residential home. Part of the generated electrical current fried the home's telephone line. The time is estimated within a plus or minus 15 minutes.				
DANE COUNTY				
5.0 SW MADISON	08/12/07 00:05 CST		20K	Thunderstorm Wind (EG 52 kt)
	08/12/07 00:10 CST		0	43.0189N, 89.4899W ~ 43.0299N, 89.4427W
Powerful thunderstorm wind gusts to around 52 knots (60 mph) toppled saeveral large trees and branches. Several power-lines were damaged.				
GREEN COUNTY				
10.0 WNW NEW GLARUS	08/12/07 00:08 CST		0	Thunderstorm Wind (EG 52 kt)
	08/12/07 00:08 CST		0	42.8753N, 89.8122W
Powerful thunderstorm wind gusts to around 52 knots (60 mph) toppled saeveral large trees and branches.				
LAFAYETTE COUNTY				

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1.0 E BELMONT	08/12/07 00:20 CST		0	Thunderstorm Wind (EG 52 kt)
	08/12/07 00:20 CST		0	42.73N, 90.3103W
Powerful thunderstorm wind gusts to around 52 knots (60 mph) toppled saeveral large trees and branches.				
JEFFERSON COUNTY				
2.0 E PALMYRA	08/12/07 00:41 CST		0	Thunderstorm Wind (EG 52 kt)
	08/12/07 00:41 CST		0	42.88N, 88.5605W
Powerful thunderstorm wind gusts to around 52 knots (60 mph) toppled saeveral large trees and branches.				
Pre-frontal clusters of thunderstorms became severe with powerful straight-line winds as they moved east-southeast at anywhere from 35 to 45 knots (40 to 52 mph) to the east-southeast.				
DANE COUNTY				
3.0 ESE CROSS PLAINS	08/14/07 01:08 CST		0	Hail (0.75 in)
	08/14/07 01:08 CST		0	43.1034N, 89.5751W
DANE COUNTY				
FITCHBURG	08/14/07 01:15 CST		0.35M	Lightning
	08/14/07 01:15 CST		0	42.95N, 89.47W
Lightning struck a residential home. The resultant fire severely damaged the home.				
DANE COUNTY				
MADISON	08/14/07 01:25 CST		10K	Lightning
	08/14/07 01:25 CST		0	43.07N, 89.42W
Lightning struck a business structure. The resultant fire caused minor exterior damage and barely any interior damage.				
GREEN COUNTY				
2.0 E DAYTON	08/14/07 01:30 CST		20K	Thunderstorm Wind (EG 60 kt)
	08/14/07 01:40 CST		0	42.82N, 89.4606W ~ 42.7N, 89.43W
Powerful thunderstorm wind gusts to an estimated 61 knots (70 mph) toppled many large trees and damaged several power-lines.				
IOWA COUNTY				
2.0 NNW COBB	08/14/07 01:55 CST		2K	Thunderstorm Wind (EG 52 kt)
	08/14/07 01:55 CST		0	42.9967N, 90.3451W
Powerful thunderstorm wind gusts to an estimated 52 knots (60 mph) toppled several large trees and damagaed a power-line.				
LAFAYETTE COUNTY				
6.0 NW LAMONT	08/14/07 02:25 CST		2K	Thunderstorm Wind (EG 52 kt)
	08/14/07 02:25 CST		0	42.7613N, 90.0635W
Powerful thunderstorm wind gusts to an estimated 52 knots (60 mph) toppled several large trees and damagaed a power-line.				
DANE COUNTY				
1.0 E FITCHBURG	08/14/07 02:40 CST		15K	Lightning
	08/14/07 02:40 CST		0	42.95N, 89.4503W
Lightning struck a residential home and damaged its roof, electrical system and telephone line.				
KENOSHA COUNTY				
BRIGHTON	08/14/07 04:30 CST		40K	Lightning
	08/14/07 04:30 CST		0	42.63N, 88.1W
Lightning struck a gas-line meter on the side of a residential home. The resultant fire damaged the living room and attic.				
A pre-dawn thunderstorm convective complex developed over the Northern Plains and moved southeast across southern Wisconsin. Some thunderstorm cells were severe with downburst winds. The complex was associated with an upper-level short-wave trough, while at the surface a warm front extended through northern Illinois back to a low pressure over the Dakotas.				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
LAFAYETTE COUNTY				
DARLINGTON	08/18/07 22:00 CST		0.10M	Flash Flood (due to Heavy Rain)
7.5 N ARGYLE	08/19/07 00:00 CST		0.50M	42.68N, 90.12W ~ 42.8084N, 89.87W
Flash flooding occurred in scattered locations between the northwest side of Darlington to the extreme northeast corner of Lafayette County. Just northwest of Darlington, a road was closed due to fast flowing water covering the road to a depth of 1 to 2 feet. Just east of Blanchardville, CTH H was closed due to fast-flowing water covering that road to a depth of 1 to 2 feet. Some mudslides, soil erosion, and crop losses were also noted. At least 20 homes had some water damage to basement contents. WSR-88D Doppler overnight rainfall estimates ranged from around 2 inches over the southern part of the county to 5 to 6 inches over the northern half.				
DANE COUNTY				
MAZOMANIE	08/18/07 23:00 CST		6.80M	Flash Flood (due to Heavy Rain)
ALBION	08/19/07 04:00 CST		5M	43.17N, 89.78W ~ 42.88N, 89.07W
Although general flooding affected all of Dane County, significant flash flooding affected the community areas of Mt. Horeb, Oregon, Sun Prairie, and Dane. At least 798 homes in Dane County sustained water damage to basement contents and/or basement walls, with damage totals of about \$3.96 million. Thirteen homes had major water damage and two were destroyed, while 783 had minor damage. At least 10 businesses reported minor water damage totaling about \$380,000. Crop losses were an estimated \$5 million. Livestock losses were about \$200,000, and farm building losses were about \$500,000. Additionally, road damages were about \$538,000, water control facility damage was about \$320,000, public building damage was about \$288,000, public utility damage was about \$124,000, and other public property damage was about \$37,000. Not included in property or crop losses were debris clearance costs of \$197,000 and protective measures of \$258,000. A bridge on CTH Y just north of Mazomanie was undermined and damaged by the flood waters and will need to be replaced. Water depths on STH 69 south of Verona reached 3 to 4 feet. Several gravel shoulder washouts occurred and crops across the county were damaged. Soil erosion and crop damage was reported. The water level on Lake Mendota rose to within 1 foot of it's record maximum level. The water level on Lake Monona came within 0.02 feet of it's record maximum level. Rainfall rates were impressive - a spotter near Oregon measured 2.1" of rain between 2000 and 2100CST on August 18th. In Morrisonville, a spotter measured 7.07" overnight through 1700CST on August 19th. Overnight through 0245CST, 4.40" was measured by a coop observer 3NNE Sun Prairie with water overflowing most roads in that area. Also, water was reported in many basements in the Sun Prairie area. A spotter measured 6.39" overnight in DeForest. At a location 1SE Verona, 5.59" fell overnight through 0122CST. The Stoughton coop observer had 6.03" overnight. In Oregon a spotter measured 5.45" overnight. For comparison, locations in Dane County normally receive about 4 to 4.25 inches of rain in the entire month of August.				
SAUK COUNTY				
LIMERIDGE	08/18/07 23:00 CST		0.30M	Flash Flood (due to Heavy Rain)
SPRING GREEN	08/19/07 04:00 CST		4M	43.47N, 90.15W ~ 43.18N, 90.07W
Although general flooding affected all of Sauk County, significant flash flooding affected the west-central part of the county around Limeridge down to Spring Green. Water depths on CTH K, G, S, TS, and STH 154 in the Limeridge to Hill Point area reached 3 to 4 feet. Gravel shoulder washouts occurred and crops across the county were damaged. It was noted that water entered the basements of many homes in the county. Nine homes in Rock Springs were severely damaged, and water came close to 2nd floor of some homes! Elsewhere, 41 had minor damage and 4 had major damage which involved damage to basement walls (total of \$250,000 in damage). Two businesses had minor flood damage (\$2,000). Livestock losses of \$22,000 were reported, and crop losses were estimated at about \$3 million for corn and \$1 million for soybeans and alfalfa. Winter rye that was cut prior to the heavy rains will be unusable (\$300,000). A major washout occurred on Denzer Rd. where it crosses the East Branch Honey Creek. Another major washout on Boot Jack Rd. about 2.5 ESE of Valton. A small section of a dam at Cazenovia was loosened, but held (about \$10,000 in damage). All of the excessive rain ultimately resulted in the Baraboo River at Rock Springs reaching major flood status. At this location the river rose to the 18.5' flood stage at 0922CST on August 19th, crested at 21.37' at 0900CST on August 21st, and fell below flood stage at 2348CST on August 24th. At a spotter location 1NNE Reedsburg, 5.11" was measured overnight, and 5.25" was measured in LaValle.				
August, 2007, rainfall totals include: 14.73" in Baraboo, 13.42" in La Valle, 16.91" in Prairie du Sac, 15.92" in Reedsburg, and 14.82" at the Lone Rock Airport.				
JEFFERSON COUNTY				
LAKE MILLS	08/19/07 00:45 CST		0.10M	Flash Flood (due to Heavy Rain)
JEFFERSON	08/19/07 04:00 CST		0.50M	43.08N, 88.9W ~ 43N, 88.8W
Flash flooding affected a swath of Jefferson County from the Lake Mills area to the city of Jefferson after 3 to 6 inches of rain fell overnight. Shorewood Road near Lake Mills was closed where a retention pond overflowed and flooded the road with water 2 to 3 feet deep. Most low roads in county had water over them. Bark River Road in Fort Atkinson was closed. Some soil erosion and crop damage was noted in the surrounding countryside. At least 10 homes sustained minor flood damage to basement contents, and at least 3 businesses had minor damage. Some gravel shoulder washouts were also noted. At a location 3.6WNW Lake Mills, 5.23" of rain was measured overnight through 0145CST on August 19th. It was noted that peak rainfall rates at this location reached 2.98 " in 2.3 hours. Ultimately , the CoCORaHS observer at this location measured 6.04" by 1000CST on August 19th. A City of Jefferson spotter measured 5.50" overnight. In the extreme southeast corner of the county, a NWS employee measured 3.81".				
COLUMBIA COUNTY				

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OKEE	08/19/07 01:00 CST		0.75M	Flash Flood (due to Heavy Rain)
LODI	08/19/07 05:00 CST		0.80M	43.35N, 89.58W ~ 43.32N, 89.52W

Significant flash flooding affected the southwest half of Columbia County, especially from the Okee area near Lake Wisconsin/Wisconsin River over to the Lodi area. Several landslides were noted in the Civil Town of West Point area along the Wisconsin River. A pavement washout closed STH 188 in the Civil Town of West Point. Water depths on STH 188 reached 2 to 4 feet. A small pier on Lake Wisconsin was washed out by the fast flowing drainage water coming in from the countryside. A private road about 2.5 miles northeast of Harmony Grove had a washout. Gravel shoulder washouts occurred on several other roads (\$50,000 damage) and crops across the southwest part of the county were damaged. Fifty-five residential homes sustained minor damage to basement contents, and 2 homes were destroyed by the flood waters. Three businesses sustained minor flood damage.

August, 2007, rainfall totals include: 11.33" at the Arlington Farm, 15.18" in Lodi, and 14.70" 7WNW Poynette (near the Wisconsin River).

WALWORTH COUNTY

SHARON	08/19/07 01:15 CST		0.15M	Flash Flood (due to Heavy Rain)
EAST TROY	08/19/07 04:00 CST		0	42.5N, 88.73W ~ 42.78N, 88.4W

Low-end flash flooding affected scattered parts of Walworth County. Areas affected were the city of Lake Geneva, the village of Sharon, the town of Lyons, and the Town of Spring Prairie. Overnight rainfall amounts on top of a nearly saturated ground ranged from around 3 inches over the southern parts of the county to 4 to 6 inches over the northern parts, based on WSR-88D doppler estimates. Water depths on some roads in low spots reached 2 to 4 feet, and significant soil erosion was noted in the surrounding countryside. At least 20 homes sustained minor flood damage to basement contents. Altogether, residential damage was estimated at \$31,000. Gravel shoulder washouts on some roads will require an estimated \$19,500 to repair. The Sharon Department of Public Works sewer pumps were damaged by flood waters, and repair costs are estimated at \$6,200. No major crop losses were reported. At a location 4ENE East Troy, 5.83" was measured overnight.

WAUKESHA COUNTY

MUKWONAGO	08/19/07 01:30 CST		0.10M	Flash Flood (due to Heavy Rain)
	08/19/07 05:00 CST		0.20M	42.87N, 88.33W

Flash flooding affected the Mukwanago area after heavy rains of 6.8 inches fell overnight. Water depths on some city streets reached 2 to 4 feet, and significant soil erosion was noted in the surrounding countryside. At least 25 homes sustained minor flood damage to basement contents. Gravel shoulder washouts occurred and crops in the area were damaged. To the west, a spotter at a location .6SE Eagle had 4.76" overnight.

KENOSHA COUNTY

3.0 W BRIGHTON	08/19/07 01:45 CST		0.20M	Flash Flood (due to Heavy Rain)
KENOSHA	08/19/07 04:00 CST		0.30M	42.63N, 88.159W ~ 42.58N, 87.83W

Flash flooding affected a broad swath of Kenosha County from the northwest corner to the city of Kenosha after heavy rains fell overnight on top of a nearly saturated ground. Fast-flowing water depths on some roads in low spots reached 2 to 3 feet, and significant soil erosion was noted in the surrounding countryside, as well as some crop damage. At least 25 homes sustained minor flood damage to basement contents, and at least 5 businesses had major damage. Gravel shoulder washouts occurred and some crops in the area were damaged. Significant street flooding was reported in the city of Paddock Lake, in the Village of Salem, in the Village of Somer, as well as on CTH KR and CTH H. At least 100 homes had flood damage to basement contents. Overnight rainfall amounts, based on WSR-88D Doppler radar estimates, ranged from around 2 inches over the southern part of the county to around 4 inches across the northern parts.

RACINE COUNTY

TICHIGAN	08/19/07 01:45 CST		0.47M	Flash Flood (due to Heavy Rain)
RACINE	08/19/07 04:00 CST		1.90M	42.83N, 88.22W ~ 42.72N, 87.8W

Flash flooding affected a broad swath Racine County from the northwest corner to the city of Racine after 3 to 5 inches of rain fell overnight (WSR-88D doppler radar estimates). Water depths on some roads in low spots reached 3 to 4 feet, and significant soil erosion was noted in the surrounding countryside. At least 40 homes sustained minor flood damage to basement contents, and at least 10 had major damage (total of \$300,000). Gravel shoulder washouts occurred (\$170,000 damage) and some crops in the area were damaged (\$400,000). Ten sod farms had minor to major damage due to flood waters and erosion (\$1.5 million in crop losses). All of the excessive rain ultimately resulted in the Root River Canal at Raymond to reach record flood status. At this gage site the river rose to the 9' flood stage at 0352CST on August 19th, crested at 11.66' at 0215CST on August 21st, and fell below flood stage at 0622CST on August 26th. The Fox River at new Munster reached major flood status. At this gage site the river rose to the 10' flood stage at 1127CST on August 19th, crested at 14.96' at 0815CST on August 24st, and remained above flood stage through the end of the month. A spotter at a location 2NE Sturtevant measured 4.8" overnight.

GREEN COUNTY

DAYTON	08/19/07 02:00 CST		0.40M	Flash Flood (due to Heavy Rain)
BRODHEAD	08/19/07 06:00 CST		0.60M	42.82N, 89.5W ~ 42.62N, 89.37W

Storm Data and Unusual Weather Phenomena - August 2007

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Flash flooding occurred in scattered locations between the northeast corner around Dayton down to the Brodhead area. Fast-flowing water of depths to 1 to 2 feet covered several roads in this area. In the Civil Town of Decatur, CTH F and CTH E were closed. In the Civil Town of Albany, Tin Can road between Zurluh and CTH EE, CTH X at River Bridge, and River Road were closed. Some mudslides, soil erosion, and crop losses were also noted. At least 100 homes had some water damage to basement contents. WSR-88D Doppler overnight rainfall estimates ranged from around 3 inches over the southwest corner of the county to 5 to 6 inches over the northeast corner.				
IOWA COUNTY				
AVOCA	08/19/07 02:00 CST		0.20M	Flash Flood (due to Heavy Rain)
ARENA	08/19/07 06:00 CST		0.50M	43.18N, 90.52W ~ 43.17N, 89.92W
Significant flash flooding affected the northern half of Iowa County, especially in the Avoca and Arena areas. Fast flowing water of 1 to 3 feet was reported in those two communities and first responders built berms around Avoca. Water depths on STH 133 reached 2 to 4 feet. Sandbagging efforts in Avoca prevented major damage, however 4 homes in Avoca had water in basements. Ten roads in the Civil Town of Arena were closed. The basement of the County Sheriff building flooded out with a fair amount of water damage to contents. Several gravel shoulder washouts occurred and crops across the northern part of the county were damaged due to erosion. Overall, at least 20 homes sustained minor flood damage to basement contents. Additionally, a sump pump overflow occurred in the Iowa County Social Services Building in Dodgeville, resulting in minor water damage to basement contents. Rainfall amounts overnight, based on WSR-88D Doppler radar estimates, ranged from 3 to 4 inches over the southeast corner of the county to 8 to 9 inches along the Wisconsin river near Avoca. Unofficially there were reports of 10 inch amounts near Avoca.				
ROCK COUNTY				
EVANSVILLE	08/19/07 11:00 CST		0.15M	Heavy Rain
3.0 E MILTON	08/19/07 18:00 CST		50K	42.78N, 89.3W ~ 42.77N, 88.8909W
Urban and small stream flooding occurred across the northern third of Rock County after 3 to 4 inches of rain fell overnight. Water depths on roads reached a foot, especially in the Evansville and Edgerton areas, however no roads were closed. Reports indicated that the flood waters were not fast flowing, nor did they pose a danger to the public. Some crop damage was noted. Overnight rainfall of 6.4 inches were measured by a spotter in Edgerton. Local residents near Badfish Creek, west of Cooksville, noted that this creek flooded and merged with Frog Pond Creek and the water was 3.5 feet deep between the creeks.				
Significant flash flooding affected parts of south-central and southeast Wisconsin during the overnight hours of August 18th into the pre-dawn hours of August 19th, in a roughly 75-mile wide band from the Iowa-Sauk County border through Dane County to Racine and Kenosha Counties. The flash flooding was the result of very heavy overnight rains from August 18th into August 19th, ranging from 4 to 7 inches (roughly one or two summer month's worth of rain in 24-hours). However, WSR-88D Doppler radar rainfall estimates ranged up to 8 to 9 inches in parts of Sauk, Dane, and Iowa County. These rainfall amounts in such a short period of time only occur once in 100 to 200 years. A graphic of WFO MKX's WSR-88D Doppler radar rainfall estimate is attached to the Flash Flood event for Dane County. Many rivers and streams exceeded flood stage by 1 to 5 feet, and some would remain above flood stage through the end of August, 2007, through the first week of September, 2007. Synoptically, a stalled surface frontal boundary stretched from northern Iowa through northern Illinois, while warm, moist air flowed north up and over the boundary. Just north of the surface boundary was a nearly stationary, thunderstorm initiation zone near the Minnesota/Iowa border. The resultant rounds of storms moved southeast across southern Wisconsin and repeatedly traversed over the same areas. Additional severe flash flooding extended northwest into Vernon, Crawford, and La Crosse Counties and northeast portions of the state of Iowa. Refer to StormData events from those areas for related information.				
SAUK COUNTY				
IRONTON	08/21/07 23:20 CST		0.10M	Thunderstorm Wind (MG 61 kt)
	08/21/07 23:20 CST		0.25M	43.55N, 90.13W
Powerful thunderstorm wind gusts to 61 knots (70 mph) toppled many trees and damaged several power-lines. Some corn fields in the surrounding countryside were flattened by the winds.				
IOWA COUNTY				
4.0 E AVOCA	08/21/07 23:25 CST		0.10M	Thunderstorm Wind (EG 65 kt)
	08/21/07 23:25 CST		0	43.18N, 90.4407W
Powerful thunderstorm wind gusts to 65 knots (75 mph) toppled many trees and damaged several power-lines.				
SAUK COUNTY				
REEDSBURG	08/21/07 23:30 CST		0.10M	Thunderstorm Wind (EG 65 kt)
	08/21/07 23:30 CST		0	43.53N, 90W
Powerful thunderstorm wind gusts to 65 knots (75 mph) toppled many trees and damaged several power-lines.				
IOWA COUNTY				
3.0 S ARENA	08/21/07 23:40 CST		50K	Thunderstorm Wind (EG 56 kt)
	08/21/07 23:40 CST		0	43.1266N, 89.92W

Storm Data and Unusual Weather Phenomena - August 2007

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Powerful thunderstorm wind gusts to 56 knots (65 mph) toppled many trees and damaged several power-lines.				
SAUK COUNTY				
LAKE DELTON	08/21/07 23:40 CST		0.10M	Thunderstorm Wind (EG 65 kt)
	08/21/07 23:40 CST		0	43.58N, 89.78W
Powerful thunderstorm wind gusts to 65 knots (75 mph) toppled many trees and damaged several power-lines.				
LAFAYETTE COUNTY				
3.0 NW BELMONT	08/22/07 00:02 CST		25K	Thunderstorm Wind (EG 52 kt)
	08/22/07 00:02 CST		0	42.7607N, 90.3718W
Powerful thunderstorm wind gusts to 52 knots (60 mph) toppled several large trees and damaged several power-lines.				
COLUMBIA COUNTY				
PORTAGE	08/22/07 00:12 CST		50K	Thunderstorm Wind (EG 56 kt)
	08/22/07 00:12 CST		0	43.55N, 89.45W
Powerful thunderstorm wind gusts to 56 knots (65 mph) toppled many trees and damaged several power-lines.				
COLUMBIA COUNTY				
RIO	08/22/07 00:21 CST		50K	Thunderstorm Wind (EG 56 kt)
	08/22/07 00:21 CST		0	43.45N, 89.23W
Powerful thunderstorm wind gusts to 56 knots (65 mph) toppled many trees and damaged several power-lines.				
DANE COUNTY				
1.0 N SUN PRAIRIE	08/22/07 00:25 CST		0	Hail (0.75 in)
	08/22/07 00:25 CST		0	43.1945N, 89.2W
DANE COUNTY				
1.0 N SUN PRAIRIE	08/22/07 00:25 CST		50K	Thunderstorm Wind (MG 53 kt)
	08/22/07 00:25 CST		0	43.1945N, 89.2W
Powerful thunderstorm wind gusts to 53 knots (61 mph) toppled many trees and damaged several power-lines.				
COLUMBIA COUNTY				
CAMBRIA	08/22/07 00:34 CST		50K	Thunderstorm Wind (EG 56 kt)
	08/22/07 00:34 CST		0	43.55N, 89.1W
Powerful thunderstorm wind gusts to 56 knots (65 mph) toppled many trees and damaged several power-lines.				
DANE COUNTY				
OREGON	08/22/07 00:35 CST		50K	Thunderstorm Wind (EG 52 kt)
	08/22/07 00:35 CST		0	42.93N, 89.38W
Powerful thunderstorm wind gusts to 52 knots (60 mph) toppled many trees and damaged several power-lines.				
WAUKESHA COUNTY				
WATERVILLE	08/22/07 01:00 CST		0.20M	Lightning
	08/22/07 01:00 CST		0	43.02N, 88.43W
Lightning struck the roof of a church, started a fire, and damaged the church's sound system, computer system, and natural gas lines. An automated fire-sprinkler system limited the amount of fire damage.				
Short lines of severe thunderstorms moved east-northeast through south-central and southeast Wisconsin during the overnight hours. Some cell movement exceeded 43 kts (50 mph) to the east. Powerful downburst winds reached hurricane-force at 64 knots or higher (74 mph+), resulting in considerable tree and power-line damage. Synoptically, a stationary front stretched from northern Iowa to northern Illinois. Warm, moist, unstable air flowed north over the front in association with an upper-level short-wave trough, resulting in thunderstorm generation.				
DANE COUNTY				

Storm Data and Unusual Weather Phenomena - August 2007

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
3.0 NE MADISON	08/22/07 15:25 CST		10K	Lightning
	08/22/07 15:25 CST		0	43.1007N, 89.378W

Lightning struck a power-pole, causing the attached power-line to fall onto a water-covered ground around a bus stop. As a result, three people were electrocuted - two of them while standing in the water waiting for a bus, and another person who got off of the bus. All three fatalities were indirectly-related to lightning since the people weren't struck by the lightning bolt. Two other people were injured and treated for shock at a hospital.

Thunderstorms with heavy rain and the usual lightning rolled through the Madison area, resulting in flash flooding and a lightning incident that received considerable media attention. See the Dane County Flash Flood event for related information.

WAUKESHA COUNTY

OCONOMOWOC	08/22/07 15:42 CST		25K	Thunderstorm Wind (EG 52 kt)
	08/22/07 15:42 CST		0	43.12N, 88.48W

Powerful thunderstorm wind gusts up to 52 knots (60 mph) toppled several large trees and damaged some power-lines.

WASHINGTON COUNTY

1.0 NE HARTFORD	08/22/07 15:48 CST		25K	Thunderstorm Wind (EG 56 kt)
	08/22/07 15:48 CST		0	43.3302N, 88.366W

Powerful thunderstorm wind gusts up to 56 knots (65 mph) toppled several large trees and damaged some power-lines.

DODGE COUNTY

3.0 E ASHIPUN	08/22/07 15:55 CST		25K	Thunderstorm Wind (MG 56 kt)
	08/22/07 15:55 CST		0	43.22N, 88.4605W

Powerful thunderstorm wind gusts up to 56 knots (65 mph) toppled several large trees and damaged some power-lines.

WASHINGTON COUNTY

6.5 S HARTFORD	08/22/07 15:57 CST		25K	Thunderstorm Wind (MG 58 kt)
	08/22/07 15:57 CST		0	43.226N, 88.38W

Powerful thunderstorm wind gusts up to 58 knots (68 mph) toppled several large trees and damaged some power-lines.

DODGE COUNTY

BEAVER DAM	08/22/07 16:00 CST		0.10M	Flash Flood (due to Heavy Rain)
HORICON	08/22/07 19:00 CST		0.20M	43.47N, 88.83W ~ 43.45N, 88.63W

Heavy rain from thunderstorms resulted in scattered flash flood conditions in the Beaver Dam to Horicon area. Fast-flowing water depths of 1 to 2 feet were reported, as well as basement flood damage in about 20 homes. Sandbagging occurred in Beaver Dam. There were reports of soil erosion and some crop damage.

JEFFERSON COUNTY

LAKE MILLS	08/22/07 16:00 CST		50K	Flash Flood (due to Heavy Rain)
WATERTOWN	08/22/07 21:00 CST		0.20M	43.08N, 88.9W ~ 43.2N, 88.72W

Flash flooding occurred in the Lake Mills to Watertown area due to repeated thunderstorms with heavy rains on top of a saturated ground. Numerous roads were covered with fast-flowing water depths of 6 inches to 1 foot. Hourly rainfall rates were 1.5 to 2 inches based on WSR-88D Doppler radar estimates. Soil erosion and crop damage also occurred on several other farms in that area. Additionally, a few basements had water damage to contents. Most creeks and streams in the area exceeded flood stage by one to 2 feet.

August, 2007, rainfall totals include: 10.64" in Ft. Atkinson, 12.68" in Jefferson, 17.75" in Lake Mills, 14.39" in Watertown, 12.54" in Waterloo, and 12.78" at the NWS office 3.8SE of Sullivan.

WAUKESHA COUNTY

SUSSEX	08/22/07 16:01 CST		75K	Thunderstorm Wind (EG 52 kt)
BROOKFIELD	08/22/07 16:01 CST		0	43.13N, 88.22W ~ 43.07N, 88.15W

Powerful thunderstorm wind gusts up to 52 knots (60 mph) toppled several large trees and damaged some power-lines in the area from Sussex to Pewaukee to Brookfield.

WASHINGTON COUNTY

6.5 S HARTFORD	08/22/07 16:05 CST		25K	Thunderstorm Wind (EG 52 kt)
	08/22/07 16:05 CST		0	43.226N, 88.38W

Storm Data and Unusual Weather Phenomena - August 2007

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Powerful thunderstorm wind gusts up to 52 knots (60 mph) toppled several large trees and damaged some power-lines.				
DANE COUNTY				
MADISON	08/22/07 16:15 CST		50K	Flash Flood (due to Heavy Rain)
SUN PRAIRIE	08/22/07 21:00 CST		0.20M	43.07N, 89.42W ~ 43.18N, 89.2W
Flash flooding occurred due to repeated thunderstorms with heavy rains on top of a saturated ground. From Madison to Sun Prairie many roads had fast-flowing water depths of 6 inches to 1 foot, and several were closed. Sandbagging also took place to control the flash flooding. A 1-hour rainfall total of 2.26 inches was measured by a spotter in Madison. Soil erosion and crop damage also occurred on several other farms in that area. Additionally, a few basements had water damage to contents.				
August, 2007, rainfall totals include: 15.18" at Madison Truax Field, 14.58" at the UW-Charmany Farm, 14.92" at mazomanie, 14.43" in Middleton, 18.48" near Mt. Horeb, 16.37" in Stoughton, 15.74" in Sun Prairie, and 13.49" at the UW Arboretum. Up to 20" may have fallen in the southwest corner.				
DODGE COUNTY				
WATERTOWN	08/22/07 16:15 CST		0.20M	Flash Flood (due to Heavy Rain)
RUBICON	08/22/07 20:00 CST		0.40M	43.2N, 88.72W ~ 43.33N, 88.47W
Heavy rain from thunderstorms resulted in scattered flash flood conditions in the Watertown to Rubicon area. Fast-flowing water depths of 1 to 2 feet were reported, as well as basement flood damage in about 50 homes. Several homes had water flowing in through windows as well as through wall cracks. There were reports of soil erosion and some crop damage. A resident on north side of Watertown picked up 1.84" of rain in 28 minutes, and a total of 3.22 inches from 4 pm to 520 pm.				
MILWAUKEE COUNTY				
BROWN DEER	08/22/07 16:15 CST		25K	Thunderstorm Wind (EG 52 kt)
GREENDALE	08/22/07 16:20 CST		0	43.17N, 87.97W ~ 42.93N, 88W
Powerful thunderstorm wind gusts up to 52 knots (60 mph) toppled several large trees and damaged some power-lines.				
OZAUKEE COUNTY				
GRAFTON	08/22/07 16:15 CST		30K	Thunderstorm Wind (EG 52 kt)
MEQUON	08/22/07 16:25 CST		0	43.32N, 87.95W ~ 43.22N, 87.98W
Powerful thunderstorm wind gusts up to 52 knots (60 mph) toppled several large trees and damaged some power-lines.				
WAUKESHA COUNTY				
HARTLAND	08/22/07 16:15 CST		0.10M	Flash Flood (due to Heavy Rain)
WAUKESHA	08/22/07 21:00 CST		0.20M	43.1N, 88.35W ~ 43.02N, 88.22W
Several rounds of thunderstorms with heavy rains on top of a saturated ground resulted in scattered flash flooding from the Hartland area to the City of Waukesha. Many roads in this area had at least 6 inches to 1 foot of fast flowing water covering them. At least a couple dozen homes in this area had basement flooding and sewage backups and needed to be pumped out. A vehicle got stuck in 3 to 4 feet deep the flood waters in the Village of Pewaukee, where sandbagging took place. Soil erosion and crop damage was also noted.				
August, 2007, rainfall totals include: 10.72" in Oconomowoc, and 9.62" in Waukesha. In Milwaukee County, Milwaukee Mitchell Field measured 7.92" for the month, which makes August, 2007 the 4th wettest August in Milwaukee.				
MILWAUKEE COUNTY				
GREENFIELD	08/22/07 16:28 CST		15K	Thunderstorm Wind (EG 52 kt)
	08/22/07 16:28 CST		0	42.95N, 88W
Powerful thunderstorm wind gusts up to 52 knots (60 mph) toppled several large trees and damaged some power-lines.				
WASHINGTON COUNTY				
3.0 NE HARTFORD	08/22/07 16:30 CST		0.10M	Flash Flood (due to Heavy Rain)
	08/22/07 21:00 CST		0.50M	43.3507N, 88.3378W
Heavy rain from thunderstorms resulted in flash flood conditions northeast of Hartford. Rainfalls of 2 to 3 inches were measured in the area. A flower farm reported substantial damage amounts due to the heavy rains, with some small hail adding insult. Soil erosion and crop damage also occurred on several other farms in that area. in the Watertown to Rubicon area. Fast-flowing water depths of 6 inches to 1 foot were also reported on a couple roads. Additionally, a few basements had water damage to contents.				
MILWAUKEE COUNTY				

Storm Data and Unusual Weather Phenomena - August 2007

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
3.0 E MKE TIMMERMAN FLD AR	08/22/07 16:31 CST		25K	Thunderstorm Wind (MG 68 kt)
	08/22/07 16:31 CST		0	43.12N, 87.9706W
Powerful thunderstorm wind gusts up to 68 knots (78 mph) toppled several large trees and damaged some power-lines.				
MILWAUKEE COUNTY				
1.0 W SHOREWOOD	08/22/07 17:03 CST		15K	Thunderstorm Wind (EG 56 kt)
	08/22/07 17:10 CST		0	43.1N, 87.8998W
Powerful thunderstorm wind gusts up to 56 knots (65 mph) toppled several large trees and damaged some power-lines.				
IOWA COUNTY				
MINERAL PT	08/22/07 17:07 CST		15K	Thunderstorm Wind (EG 56 kt)
	08/22/07 17:07 CST		0	42.85N, 90.18W
Powerful thunderstorm wind gusts up to 56 knots (65 mph) toppled several large trees and damaged some power-lines.				
GREEN COUNTY				
2.0 SW JORDAN	08/22/07 17:35 CST		10K	Thunderstorm Wind (EG 52 kt)
	08/22/07 17:35 CST		0	42.6296N, 89.8078W
Powerful thunderstorm wind gusts up to 52 knots (60 mph) toppled several large trees and damaged a couple power-lines.				
GREEN COUNTY				
4.2 SW MONTICELLO	08/22/07 17:46 CST		10K	Thunderstorm Wind (EG 56 kt)
	08/22/07 17:46 CST		0	42.6871N, 89.6384W
Powerful thunderstorm wind gusts up to 56 knots (65 mph) toppled several large trees and damaged a couple power-lines.				
GREEN COUNTY				
5.0 W NEW GLARUS	08/22/07 17:48 CST		10K	Thunderstorm Wind (EG 65 kt)
	08/22/07 17:48 CST		0	42.82N, 89.7286W
Powerful thunderstorm wind gusts up to 65 knots (75 mph) toppled several large trees and damaged several power-lines. A large pine tree 100 feet tall was snapped at the 10 foot level.				
DANE COUNTY				
OREGON	08/22/07 18:00 CST		50K	Flash Flood (due to Heavy Rain)
	08/22/07 21:30 CST		0.20M	42.93N, 89.38W
Flash flooding occurred in the Oregon vicinity due to repeated thunderstorms with heavy rains on top of a saturated ground. In Oregon, numerous roads were covered with fast-flowing water depths of 6 inches to 1 foot. Sandbagging also took place to control the flash flooding. Hourly rainfall rates were reported in the Civil Towns of Avon, Fulton, Magnolia, Union, and Plymouth. Some soil erosion, gravel washouts, and crop damage were noted. Badfish Creek and Allen Creek just east and northeast of Evansville exceeded flood stages by 3 to 5 feet and overflowed adjacent roads.				
ROCK COUNTY				
EVANSVILLE	08/22/07 18:15 CST		0.50M	Flash Flood (due to Heavy Rain)
	08/22/07 21:00 CST		0.50M	42.78N, 89.3W ~ 42.68N, 89.02W
Several rounds of thunderstorms with heavy rains on top of a saturated ground resulted in scattered flash flooding from the Evansville area to the Janesville vicinity. Water damage to basement contents and/or basement walls, as well as fast-flowing water depths of 6 inches to 1 foot on roads, were reported in the Civil Towns of Avon, Fulton, Magnolia, Union, and Plymouth. Some soil erosion, gravel washouts, and crop damage were noted. Badfish Creek and Allen Creek just east and northeast of Evansville exceeded flood stages by 3 to 5 feet and overflowed adjacent roads.				
August, 2007, rainfall totals include: 17.39" at Afton, 13.15" in Beloit, 16.24" in Clinton, 15.22" in Milton, and over 17" in Janesville.				
IOWA COUNTY				
MINERAL PT	08/22/07 18:30 CST		0.10M	Flash Flood (due to Heavy Rain)
	08/22/07 19:45 CST		0.10M	42.85N, 90.18W
Several rounds of thunderstorms with heavy rains on top of a saturated ground resulted in a flash flood event in hilly Mineral Point. Fast-flowing water quickly flooded the city's streets to a depth of 6 inches to 2 feet. One residential home's driveway was washed out by the flood waters. A few homes in the city sustained water damage to basement contents. Some soil erosion and crop damage were noted in the surrounding countryside.				
August, 2007, rainfall totals include: 20.12" in Dodgeville, and an unofficial 25" at a location 2W of Barneveld.				

Storm Data and Unusual Weather Phenomena - August 2007

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
RACINE COUNTY				
STURTEVANT	08/22/07 18:30 CST		0.10M	Flash Flood (due to Heavy Rain)
2.0 SW RACINE	08/22/07 23:00 CST		0.10M	42.7N, 87.9W ~ 42.6996N, 87.8278W
Several rounds of thunderstorms with heavy rains on top of a saturated ground resulted in flash flooding from the Sturtevant area into the city of Racine. Fast-flowing water reached depths of 6 inches to 2 feet on several roads. The following roads were closed: Intersection of CTH X and Southwood Drive, Intersection of STH 11 and STH 32, and intersection of CTH H and CTH KR. At least a couple dozen homes had water damage to basement contents, or sewage backups. Some soil erosion and minor crop damage were noted in the area.				
August, 2007, rainfall totals include: 11.47" in Burlington, 11.58" in Racine, 11.04" at the Racine Airport, 12.41" in Union Grove, and 13.75" in Waterford.				
WALWORTH COUNTY				
WHITEWATER	08/22/07 18:30 CST		0.15M	Flash Flood (due to Heavy Rain)
GENOA CITY	08/22/07 23:00 CST		0.20M	42.83N, 88.73W ~ 42.5N, 88.33W
Several rounds of thunderstorms with heavy rains on top of a saturated ground resulted in scattered flash flood events across the entire county of Walworth. Fast-flowing water reached depths of 6 inches to 2 feet at the following locations: STH 11 just east of STH 89 (about 3N of Darien), Plank Road just northeast of Elkhorn, Highway 12 and Potter Road, CTH L near East Troy, and several roads around Richmond. Johnson Creek and Turtle Creek areas between Richmond and I-43 exceeded flood stage. At least a couple dozen homes had water damage to basement contents, or sewage backups. Two basement walls of a home in the Civil Town of Lafayette, or about 2 miles east-northeast of Elkhorn, collapsed. Some soil erosion and minor crop damage were noted in the county. A couple minor landslides occurred along the shoreline of Geneva Lake.				
August, 2007, rainfall totals include: 12.83" in Genoa City, and 12.67" in Whitewater.				
GREEN COUNTY				
BROWNTOWN	08/22/07 19:00 CST		0.40M	Flash Flood (due to Heavy Rain)
6.0 ENE DAYTON	08/22/07 21:30 CST		1M	42.58N, 89.82W ~ 42.8532N, 89.3907W
Several rounds of thunderstorms with heavy rains on top of a saturated ground resulted in another round of scattered flash flooding across Green County. At least another 150 residents sustained water damage to basement contents and/or basement walls. Two homes in Browntown had basements on the verge of collapsing. One farm home near Brooklyn had 5 feet of water in the basement and the basement walls cracked. Two silos on the same property had cracking due to water accumulation. In the city of Brodhead, a sink hole developed which resulted in the sewer system collapsing at that location. Road damages (gravel washouts or culverts) were scattered around the county, and totaled 91,000. Several roads were closed over the eastern third of the county due to either fast-flowing water or high water levels. Many other roads across the county had at least 6 inches to 1 foot of fast flowing water covering them. About 20 homes in Albany had basement flooding and sewage backups and needed to be pumped out. In some cases water depths were almost to the basement ceiling! Several homes and businesses in New Glarus had sewage backups. A home on CTH Y near Monroe had a partial collapse of two basement walls. A mudslide occurred on CTH M just south of Jordon Center. Soil erosion and crop damage was also noted. Refer to the August 18-19, 2007, Flash Flood event for Green County for related information.				
August, 2007, rainfall totals include: 15.57" at Brodhead, 15.43" in Monroe, and 20.20" in New Glarus.				
KENOSHA COUNTY				
3.0 N WHEATLAND	08/22/07 19:00 CST		0.10M	Flash Flood (due to Heavy Rain)
3.0 N BRISTOL	08/22/07 23:00 CST		0.30M	42.6434N, 88.2W ~ 42.5934N, 88.05W
Several rounds of thunderstorms with heavy rains on top of a saturated ground resulted in flash flooding from the Sturtevant area into the city of Racine. STH 50 between STH 75 and STH 83 was closed in several spots due to water depths of 3 to 5 feet. Some local residents indicated that this was the highest water levels they've ever seen. The Fox River and Des Plains river exceeded flood stage. Sandbagging occurred and a berm was built in Wheatland. At least a couple dozen homes had water damage to basement contents, or sewage backups. Some soil erosion and crop damage were noted in the area.				
August, 2007, rainfall totals include: 11.50" in Kenosha, 10.78" at the Kenosha Airport, 9.96" in Paddock Lake, and 12.18" in Twin Lakes.				
LAFAYETTE COUNTY				
1.0 S SHULLSBURG	08/22/07 19:00 CST		50K	Flash Flood (due to Heavy Rain)
	08/22/07 21:30 CST		0.20M	42.5555N, 90.23W
Flash flooding occurred south of the Village of Shullsburg due to repeated thunderstorms with heavy rains on top of a saturated ground. CTH O south of Shullsburg was covered with fast-flowing water depths of 6 inches to 1 foot. One mile south of the village a mudslide occurred onto CTH O. Hourly rainfall rates were 1.5 to 2 inches based on WSR-88D Doppler radar estimates. Soil erosion and crop damage also occurred on several other farms in that area. Additionally, a few basements had water damage to contents. Most creeks and streams in the area exceeded flood stage by one to two feet.				
August, 2007, rainfall totals include: 16.98" at Arygle, and 17.22" at Blanchardville.				

Storm Data and Unusual Weather Phenomena - August 2007

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
WAUKESHA COUNTY				
PEWAUKEE	08/22/07 21:30 CST		25K	Thunderstorm Wind (EG 56 kt)
	08/22/07 21:30 CST		0	43.08N, 88.27W
Powerful thunderstorm wind gusts up to 56 knots (65 mph) toppled several large trees and damaged a couple power-lines. One tree landed on a home and damaged the roof and a skylight.				
During the afternoon and evening hours of August 22nd, the second round of storms for the calendar day moved east across south-central and southeast Wisconsin. The clusters or short lines of storms moved east at a speed of about 30 knots (35 mph), and generated damaging downburst straight-line winds that toppled trees and power-lines, and heavy rains that triggered flash flooding. Synoptically, a stationary front stretched from northern Iowa to Wisconsin/Illinois border. Warm, moist, unstable air flowed north over the front in association with an upper-level short-wave trough, resulting in thunderstorm generation. Hourly rainfall rates peaked around 2 inches.				
By the end of August, 2007, many locations in south-central and southeast Wisconsin would establish new August rainfall records, and all-time/any month rainfall records. Many locations measured 10 to over 20 inches for the month of August, 2007, or about 200% to over 400% of normal. Normal August precipitation in southern Wisconsin is about 4 to 4.25 inches. Unofficially, about 25 inches fell at a location 2W of Barneveld, Iowa County. Specific August, 2007, monthly totals are listed in the various flash flood events of August 18-19th and August 22nd.				
SAUK COUNTY				
1.0 W SAUK CITY	08/24/07 03:00 CST		1.90M	Lightning
	08/24/07 03:00 CST		0	43.27N, 89.7499W
Lightning struck a commerical peg farm near Sauk City, killing about 1900 pigs. The exact location of the farm isn't known.				
Scattered thundestorms with plenty of lightning rolled through south-central Wisconsin.				
COLUMBIA COUNTY				
2.0 E PORTAGE	08/27/07 08:00 CST		75K	Lightning
	08/27/07 08:00 CST		0	43.55N, 89.4101W
Lightning started a fire that substantially damaged a 2-story home.				
DANE COUNTY				
4.3 SW MADISON	08/27/07 08:45 CST	1	0	Lightning
	08/27/07 08:45 CST		0	43.026N, 89.4802W
Lightning struck the golf bag and then a 75-year-old male golfer who was standing under a tree during a thunderstorm. He was instantly killed. He was playing at the Odana Golf Course on the southwest side of Madison.				
Direct Fatalities: M75GF				
COLUMBIA COUNTY				
1.0 E PORTAGE	08/27/07 09:00 CST		50K	Lightning
	08/27/07 09:00 CST		0	43.55N, 89.4301W
Lightning started a fire that substantially damaged a 2-story home.				
(WI-Z051) FOND DU LAC, (WI-Z052) SHEBOYGAN, (WI-Z057) COLUMBIA, (WI-Z058) DODGE, (WI-Z059) WASHINGTON, (WI-Z060) OZAUKEE, (WI-Z063) DANE, (WI-Z064) JEFFERSON, (WI-Z065) WAUKESHA, (WI-Z066) MILWAUKEE, (WI-Z068) GREEN, (WI-Z069) ROCK, (WI-Z070) WALWORTH, (WI-Z071) RACINE, (WI-Z072) KENOSHA				
	08/27/07 10:30 CST		0.16M	Strong Wind (MAX 43 kt)
	08/27/07 13:00 CST		0	
A large convective thunderstorm complex moved southeast through southern Wisconsin during the mid-morning hours and gradually diminished in strength. On the back side of the thunderstorm complex a wake low pressure formed, which resulted in a tight surface pressure gradient. The tight pressure gradient generated strong gusty southeast winds up to around 40 knots (46 mph).				